

# PATENT ABSTRACTS OF JAPAN

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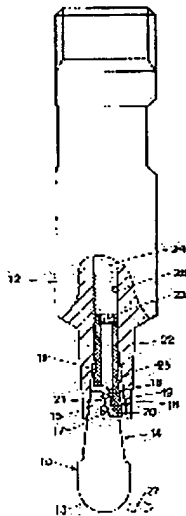
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## (54) METAL CUTTING TOOL



### (57)Abstract:

PURPOSE: To positively mount a milling tool or the like of small dimensions by constituting a metal cutting tool composed of a cutting body and a shaft, in such a way that the cutting body is connected to a locking screw through an engaging means when the locking screw is screwed into the shaft.

CONSTITUTION: The edge 13 of a cutting body 10 protruded from a shaft 12 is provided with at least one cutting edge that can be differently designed according to an applied field or use. A circular cone part 14 having an engaging means 15 comprising a tongue part 16 and a recess 17 is formed on the rear end side of the cutting body 10. In order to mount the cutting body 10 to the shaft 12, a locking screw 11 is axially moved toward the open end of a conical seat 25. The engaging means 15 of the cutting body 10 is therefore inserted in the conical seat 25 and automatically comes into a position to be engaged with an engaging means 19 of the locking screw 11. When the cutting body 10 is rotated in the direction of an arrow mark 27, the locking screw 11 is

also rotated in the direction of the arrow mark 27. The cooperation of a thread 22 and an internal thread 26 moves the locking screw 11 and the cutting body 10 until the circular cone part 14 comes in contact with the conical seat 25.

## LEGAL STATUS

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